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(71)Applicant: BIOLEADERS CORPORATION

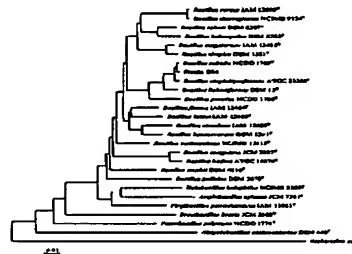
(72)Inventor: ASIUCHIMAKOTO
BAEK, DAE HEON
CHOI, YUN HO
HAN, JAE SUK
HONG, SEUNG PYO
LEE, SEUNG GU
SHIN, SEON YEONG
SODAGENJI
SONG, JAE JUN
SUNG, MUN HUI

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(54) BACILLUS SUBTILISVAR. CHUNGKOOKJANG (KTCT 0697BP) PRODUCING POLY-GAMMA-GLUTAMIC ACID OF HIGH MOLECULAR WEIGHT

(57) Abstract:

PURPOSE: Provided is salt tolerant strain, *Bacillus subtilis* var. chungkookjang (KTCT 0697BP) isolated from Korean traditional fermented food, chungkookjang. And poly- γ -glutamic acid is also provided which is edible, water-soluble, anionic, biodegradable and produced from the strain, and which is used in cosmetics, absorbent, biodegradable plastic materials.



CONSTITUTION: A *Bacillus subtilis* var. chungkookjang (KTCT 0697BP) is isolated from chungkookjang. A preparation method of poly- γ -glutamic acid from the strain comprises the steps of: (a) inoculating and cultivating *Bacillus subtilis* var. chungkookjang (KTCT 0697BP) in a medium to produce poly- γ -glutamic acid and then, adding acids until PH becomes 2 to 4, to obtain liquid that includes poly- γ -glutamic acid; (b) removing polysaccharide from the resultant liquid, followed by extracting with solvent and centrifuging it to obtain precipitate of poly- γ -glutamic acid; (c) dissolving the precipitant by adding distilled water, then degrading exogenous protein by proteinase; and (d) dialyzing it to remove free glutamic acid and concentrating it.

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